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China's New Group Armies: Adopting a Concept of Modern Warfare

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An Intelligence Assessment

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Modern Warfare	

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This paper was prepared by Office of East Asian Analysis,

Comments and queries are welcome and may be directed to the Chief, China Division, OEA

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June 1987

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	China's New Group Armies: Adopting a Concept of Modern Warfare		25X1
Key Judgments Information available as of 1 June 1987 was used in this report.	Over the past decade, Beijing has moved Liberation Army (PLA) for modern combined weapons technology, trimming the armed promoting younger, combat-experienced regional and national commands. Although arms of the military, China's ground force sweeping reforms. China's 35 field armies more powerful "group armies," creating a Army with greater mobility, firepower, and The amalgamation of firstline ground for fundamentally altered the distribution of borders: • Along the Sino-Soviet border, most condisbanded field armies were absorbed in The group armies are still far from equal counterparts, and we expect that group continue to have priority in receiving C weapons.	pat, acquiring selected advanced I forces by at least 2 million, and officers to prominent positions in gh modernization has touched all less are undergoing the most is have been consolidated into 24 the framework for a modern ind combined-arms integration. The ces into group armies has not military strength along sensitive inbat troops from the four into 13 new, larger group armies. All in fighting power to their Soviet armies opposite the USSR will	25X1
•	 Opposite Vietnam, seven field armies we armies. However, this reduction of some than offset by the semiannual rotation of many as 70,000 troops from other region. Despite the elimination of one field arm combat capability has probably been on three remaining armies is the best equip now includes a fourth infantry division at tank brigades. As a result of resource constraints and lobelieve that China's military modernizati emergence of two distinct types of group armies deployed against Vietnam and Ta infantry-heavy forces, and primary equip. 	e 40,000 combat troops is more to the Malipo battlefield of as ons. The opposite Taiwan, China's ally slightly reduced. One of the oped force in southern China, and and new air defense, artillery, and and result in the armies in the next decade. Group iwan will probably remain	25X1
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	consist of weapons best suited to supporting infantry operations. In contrast, group armies arrayed against the Soviet Union will become mechanized formations, and potentially offer a capability to project military power. The amount of combat equipment and combined-arms integration of Chinese frontline units has improved, but even the most advanced group armies remain markedly inferior to their Soviet adversaries: • For example, the Soviet 35th Army—deployed against China's Shenyang Military Region—has almost three times as many tanks, four times as many armored fighting vehicles, and almost twice as many artillery pieces as one of China's best equipped group armies.	25X1
	 Soviet group armies in the Far East have an entire range of weapons unavailable to Chinese units, including short-range FROG and mediumrange Scud-B tactical missiles, mobile surface-to-air-missile batteries, and combat helicopters. Indeed, as its military strength grows, Beijing will need to avoid unduly increasing friction with Moscow that could lead to an arms race that China cannot win. 	25 X 1
	Beijing's recognition of these equipment deficiencies, however, does not mean that China is ready to buy large quantities of military hardware from the West. Rather, Beijing is more likely for the next few years to seek critical technologies from the West to "leapfrog" the weapons of the 1970s and 1980s and to revamp its defense industries to build the "smart" weapons capable of meeting the anticipated Soviet threat of the 21st century. The Chinese have already proposed joint US-China development of a sophisticated antitank missile, and they have investigated coproducing the US Patriot advanced air defense system and relatively low-cost means of countering Soviet armor, such as the US Copperhead laser-guided artillery projectile.	25>
	Beijing is looking for assistance in developing its operations research capabilities, and it is currently as interested in the US management approach to military research and development as in hardware. Beijing's	,
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	record on proc	ducing the appropriate weapon, i	in the right decade to meet	
		abysmal, and China's defense in	_	
	correcting this			25X1
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		the shortage of funds for weapon		
•		creasingly sought "creative finar	icing" arrangements in the	0.534
	West.			25X1 25X1
			In	23/1
	the shorter ter	rm, the Chinese will increasingly	-	
		make significant improvements	to their group armies	
	without substa	antial expenditures:		
	• Combat Do	ctrine and Operational Concepts	Wa haliaya Dajijna intanda	
		advantage of US and NATO exp		
		nd knowledge of Soviet doctrine	=	
	leaders have		to lecture at the newly	25 X 1
		ional Defense University, and Ch	_	
		sted a conference in Beijing with	US Army combat operations	
	experts in F	ebruary.		
	• Combined-	Armed Tactics. Beijing clearly re	ecognizes the value of West-	
		ed-arms experience, and greater	_	
		trine would probably improve Cl	-	
	operations.			
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		gement. As its appreciation for the againment grows. China will n	-	
		e equipment grows, China will p nagement techniques. Although		
		eed to copy Western force-susta	·	
		more centralized, demand-drive	,	
	its most exp	ensive weapon components.		
,	T		1	
		—to explore concepts requiring ral Staff will buy a few items of		
•		imple, in late March Beijing pur		
		eters to form an experimental Ar		
	nate to a grou	p army. This small purchase, ho	owever, will probably be the	
		attack helicopter acquisitions from	om the West at least through	
	the end of 199	90.		25 X 1
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	As expected in such a fundamental reorganization of military forces, Beijing's short-term problems are substantial. Nonetheless although difficulties are recognized, few PLA officers are questioning the efficacy of the reorganization. Emphasis in the near term will be on low-cost areas of force restructuring, training, development of operational art, and experimentation. Beijing's formation of the group armies is only the first step in a long process to produce a truly modern force capable of meeting any adversary, even the Soviet Union, in the 21st century.	25X1 25X1
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Figure 1. Combined-arms training is a top priority for the new group armies.

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	China's New Group Armies: Adopting a Concept of Modern Warfare	
	Group Armies Take Shape on the Soviet Border	Applying the Lessons of Korea and Vietnam
25X1	Stimulated by the markedly improved Soviet military threat opposite its northern border and by the problems in coordination and communication that occurred during its 1979 war with Vietnam, Beijing during this past decade has moved decisively to prepare the People's Liberation Army (PLA) for modern combat. Military leaders have acquired selected advanced weapons and foreign weapons technology, trimmed the armed forces by at least 2 million to the current level of 4-5 million, and promoted younger officers with combat experience to prominent positions in regional and national commands. Although modernization has touched all arms of the military, China's ground forces are undergoing the most sweeping reforms—structural changes that have eliminated field armies in favor of more powerful combined-arms armies. The transition to these group armies culminates a decadelong drive to break with the central tenet of the Maoist People's War strategy—trading land for time to mobilize China's huge population for guerrilla assaults on overextended enemy forces.	Origins of the current reforms date from the Korean war, where massed Chinese infantry formations were often decimated by the overwhelming firepower of UN forces, and US air superiority wreaked havoc with tenuous Chinese supply lines. The organizational structure that had served the PLA well during its guerrilla and civil wars was not readily adaptable to the modern battlefield and conditions outside the Chinese mainland: foreign "masses" could not be mobilized to provide supplies or intelligence to Chinese combatants, and lightly armed infantry units ultimately could not beat artillery- and armor-heavy opponents. Realization of Beijing's inability to protect regional interests crystallized following the Vietnamese invasion of Cambodia in 1978, when the threat of China's military power was not sufficient to deter Hanoi from attacking a Chinese ally. China's invasion of northern Vietnam in 1979 failed to force Hanoi to withdraw from Cambodia and accomplished only limited military objectives at considerable economic and human
25X1		cost. The invasion illustrated the inadequacies of PLA doctrine—Chinese field commanders failed to adequately synchronize the actions of combat elements, and tactical flexibility was further constrained by a cumbersome command and control system. Combined-arms integration has become a central goal of the current reform movement.

Dec	lassified in Part - Sanitized Copy Approved for Ri Secret	elease 2012/01/17 : CIA-RDP88T00539R0005006	
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25X1	The Group Army Goes Nationwide	 The most serious problem facing the group armies is that they lack sufficient quantities of modern military hardware: Only a few group armies have mechanized infantry formations, and many still lack sufficient trucks to move and support their soldiers on the battlefield. Group armies have only limited quantities of the shoulder-fired HN-5 (SA-7) air defense missile. The HN-5 provides only a close-in defense of four kilometers or less, and the organic air defense needs are still largely provided by visually aimed, towed antiaircraft pieces of World War II vintage. 	
	In May 1985, Central Military Commission Chairman Deng Xiaoping announced the consolidation of all remaining field armies to combined-arms group armies.	and has an obsolete warhead unable to penetrate the armor of any tank more modern than the Soviet T-62. These and other equipment shortfalls, particularly in the combat support area, are unlikely to be remedied soon, for China's military budget is severely restricted by more pressing economic needs	25X ⁻ 25X1
			25X1
	Transitional Problems As expected in such a fundamental reorganization of military forces, Beijing's short-term problems are substantial. The simple act of streamlining the force, for example, has led to severe problems in placing the several hundred thousand demobilized PLA officers in equivalent civilian posts and disgruntlement among		25 X 1
25X1	many who believed that they were guaranteed lifelong careers in the armed forces. although difficulties are recog-		25 X 1
25 X 1	nized, few PLA officers are questioning the efficacy of the reorganization. Public speeches by China's highest military officials underscore that they believe the problems are solvable and that, in the long run,		25X1
	China's defense interests will be far better served by the new military organization.		25X1
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disruptive—C that some infa to artillery and retraining of I enlisted person also disrupted	restructuring has been tremendously hinese military publications indicate ntry divisions were converted en masse d antiaircraft brigades—forcing the arge numbers of officers and senior nnel. The massive reorganization has traditional command relationships—reer ties—between officers.	"push-driven" system is adequate for unmechanized peacetime forces with low ammunition consumption rates—most PLA artillery batteries, for example, fire only a handful of shells a year—but would probably be overwhelmed by the wartime requirements of a more modern ground force. Much of China's basic military equipment—spare parts, calibration, and diagnostic equipment—is produced and managed by military regions, using different administrative procedures. Moreover, among China's weapons and ammunition factories—many of which produce identical items—there is little standardization in such basic areas as spare parts numbering systems or shipping container designs. These characteristics severely constrain Beijing's ability to move group armies away from the military region support network.	25X 25X 25X
tradition of re national force associated wit	able problems are the result of a gional orientation. Although nominally s, China's group armies remain closely h individual military regions, cers, for example, are trained at miliademies and usually spend entire can a single group army or military	But Long-Term Gains Despite the problems, the combined-arms army is the foundation upon which Beijing can build a modern ground army. Already, the changing structure has revitalized the discussion of strategy and tactics and forced officers in the various service arms of the PLA to think far more realistically about war on the modern battlefield. Numerous articles in China's premier military newspaper, the Liberation Army Daily, indicate that a lively discussion of combined-arms operations is under way.	25X1
self-reliant co system poorly ly. The PLA l ground forces off from Beijis civilian econo- as possible. The	ional emphasis on regional defenses and mbat troops has produced a logistic suited for movement of forces nationalogistic system is designed to ensure that can operate independently even if cut ng, and to minimize the burden on the my by making the PLA as self-sufficient result is a highly decentralized supply uited to supporting defensive infantry place.	defense units have been subordinated to group armies. Although equipment levels and readiness postures continue to depend on mission and location, Chinese main force units are probably more standardized under the group army structure than at any previous	25X

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Table 1 The Evolution of China's Group Army Increased Firepower and Combined-Arms Integration	y :					
	Tanks	SP Artillery	Field Artillery	AAA	ATGM Launchers	AFVs/ APCs
Chinese field army total (pre-1981)	80		294	96	0	14
Tank regiment	80		-			14
Artillery regiment			60			
AAA regiment				42		
Three infantry divisions						
Nine infantry regiments			54	54	·	
Three artillery regiments			180			
Early Chinese combined-arms army total (1981-85)	240		414	264	0	120
Tank division	240					120
Artillery division			180			
AAA division				210		
Three infantry divisions		-				
Nine infantry regiments		-	54	54		
Three artillery regiments			180			
New Chinese group army total (post-1985)	480 .	18	498	462	108	366
Tank division	240	18	66	66	36	240
Artillery brigade			90		18	
AAA brigade				90		
Three infantry divisions						
Nine infantry regiments			162	162	18	
Three tank regiments	240			18	18	126
Three artillery regiments			180		18	
Three AAA regiments				126		
Note: These figures represent estimated orders ground formations doctrine, weapons production capabilities, and patterns. Many past and present Chinese groun lack uniformity, and most of China's other ground least some of these elements.	Chinese comba regional deployment nd force formations	ıt				
time. Moreover, heavy equipment has ed to lower command levels—increas:	ing regimental		cting the Fl			
combat capabilities and, at a minimu creased familiarity with mechanized arms operations at the lower echelons nese tactical mobility has also progres	and combined. Finally, Chi-	thus f	ar has creat	ed only a	p clearly und basic framevessively to fill	vork and
	of the group	the Ra	ι <i>γ</i> ο.			
and the northeast are now fully	motorizod.					
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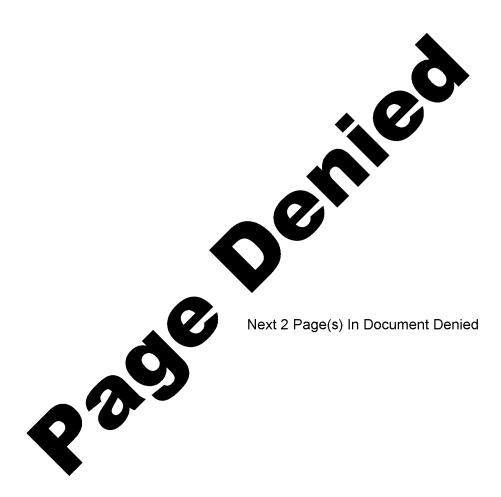
Declassified in Part - Sanitized Copy Approved for Release 2012/01/17: CIA-RDP88T00539R000500650002-3 25X1 the Soviets add new weapon systems to their forces along the border, the Chinese systems will begin to fill some glaring gaps in Beijing's defenses: • New, extended-range artillery systems provide impressive fire support, equaling or exceeding the 25X1 range of the Soviet guns facing them. • The new Chinese tank is superior in range, accuracy, and mobility to standard T-54/55 and T-62 tanks, which make up 90 percent of Soviet tanks currently facing China. • The new infantry fighting vehicles offer a challenge to the BMP-1, the backbone of Soviet mechanized infantry forces in Asia; the automatic cannon of Chinese infantry fighting vehicles demonstrated at an arms show in Beijing late last year could destroy BMPs at ranges up to 3,000 meters. However, if the Soviets fit BMPs in the Far East with additional **Acquiring New Weapons** China has made considerable progress toward develarmor—as they have in Eastern Europe and Afghanistan—this range would be considerably oping some of the new weapons and equipment needed to give offensive punch to group armies. In the past reduced. three years, Beijing has unveiled an impressive variety of weapons, including an improved main battle tank, • Deployment of self-propelled antiaircraft artillery new armored personnel carriers, self-propelled and (AAA) and infantry fighting vehicles with automatic cannons would provide Chinese mechanized towed artillery, and lightweight surface-to-air misforces with improved defense against Soviet attack siles. China's 25X1 most elite group armies in the northeast are receiving helicopters (see figure 10, foldout). 25X1 China's newest ground weapons: 25X1 Training the Modern Soldier The composition of the Chinese officer corps is also 25X1 undergoing a transformation. Chinese officers are no longer promoted 25X1 directly from the enlisted ranks; all new officers must 25X1 at least be senior middle school (high school) graduates and complete a two-year officer training course at a military academy. Furthermore, to attract 25X1 China's most educated youth to the military, college graduates can receive commissions after completing a one-year officer training course, or completing military training courses now mandatory at some civilian The new systems are being provided in small quanti-25X1 ties, however, and China would be unlikely to fully universities. equip its forces opposite the USSR for at least 10 years. Moreover, the Soviets almost certainly would continue upgrading their forces during this period. As these new weapons are deployed, however, and until

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	Equally profound changes are under way in China's enlisted ranks, aimed at increasing the number of technically trained soldiers by creating a career non-commissioned officer (NCO) corps. The first NCO	throughout China have participated in Beijing's campaign of military pressure against Vietnam. During a recent visit to the Shijiazhuang officer academy south of Beijing,	
	training academy was opened last year to retain technically skilled enlisted men who can no longer expect to advance to officer ranks. An NCO career system also provides a base for training conscripts and wartime mobilization of a ready reserve. Within	was considered an elite assignment for new officers, who can test their command abilities in combat against battle-hardened Vietnamese troops. Beijing is more fully exploiting the training opportunity provided by the Malipo cam-	25X
1	group armies, a skilled NCO corps will free junior officers from technical and administrative tasks and—like most Western armies—will allow officers to focus on improving leadership and command.	paign this year.	25X′ 25X′
	Over the past three years, two highly specialized means have been used to provide very different types of training experiences for China's ground forces. The most dramatic of these is the battlefield south of the town of Malipo on the Vietnamese border where, since April 1984, more than 200,000 troops from		25X ²
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		Implications for the Regional Balance	
		We believe that reorganization and consolidation of	
A1.1 1 1		the armed forces have not significantly reduced	
Although combat at Malipo provi for China's rejuvenated officer co		China's fighting strength (see appendix). In the past two years, we estimate that as many as 400,000 troops	
terms of combined-arms experien	ce. Beijing has limit-	have been trimmed from China's ground combat	
ed the battlefield to a series of hi Vietnam in an area some 15 kilon		forces (excluding cuts in the General Logistics Department and the General Political Department).	
kilometers deep, in part because	penetrations farther	parement and the constant control began through	
into Vietnam would overtax Chir			
communications capabilities. Mo at Malipo has provided no opport			
the PLA's most pressing deficience		Thus, net reductions	
and integrated armor and infants ther side has used aircraft to sup		in PLA fighting strength have probably been limited to 100,000 troops—roughly 3 percent of PLA ground	
tions on the battlefield, and armo	red vehicles are	forces—composed largely of China's oldest, least edu-	
unsuited to the mountainous terr	ain of Malipo.	cated officers and soldiers.	
China has turned to the West for	_	Moreover, China's force modernization and reorgani-	
techniques. Chinese military visit Training Center at Fort Irwin, C		zation are aimed largely at improving defensive capabilities against the Soviet Union, and thus	
Training Conter at Fort II will, C	amor <u>ma,</u>		
these are	ound force manager	In the three military regions along the Sino-Soviet border, most combat troops from the four	
areas that cover approximately 30	ound force maneuver 00 square kilometers,	disbanded field armies were absorbed into 13 new,	
consisting of infantry assault cour		larger group armies. The group armies are still far	
artillery and ground attack aircrand armored vehicle training are		from equal in fighting power to their Soviet counter- parts but troop	
		levels along the Soviet border now constitute a greater	
		proportion of total Chinese troop strength than before reorganization. Moreover, group armies opposite the	
		USSR will continue to have priority in receiving	
the Chinese fully exploit the oppo	If osition force concept	China's limited modern weapons.	
these troops will probably use tac	ctics designed to		
simulate those that China's group against a Soviet attack.	nd forces would face		
According to press reports, event			
army will travel to the National combat evaluation. However, int	-		
arms training at a single nationa			
77 infantry divisions would requi years, and we believe instead tha			
will serve as a model for the deve	elopment of other		
combined-arms training centers	throughout China.		
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		armored personnel carriers to mechanize every infantry division. very few weapon systems are in production for the	25 X 1
		ground forces.	2
		To overcome the shortage of funds for weapons research and development, Beijing has increasingly	
		sought "creative financing" arrangements in the West.	_
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		In other discussions with US manufacturers, the Chinese military-industrial complex is increasingly insistent on exploring the possibilities of offset	
	As a result of resource constraints and long-term	agreements or long-term loans to finance the projects.	2
	defense priorities, we believe that China's military modernization program may result in the emergence of two distinct types of group armies in the next decade. Group armies deployed against Vietnam and Taiwan will probably remain infantry-heavy forces because their opponents are less mechanized than the	In some cases, to explore concepts requiring modern equipment, the Chinese General Staff will buy a few samples of selected military hardware. The Chinese, for example, are planning to form an army aviation/army air corps structure with light attack helicopters	
	Soviets. Primary improvements will probably consist of weapons best suited to supporting infantry operations—towed artillery, mortars, small arms, tactical radios, and artillery fire-control systems—and integrated close air support coordination. In contrast, group armies arrayed against the Soviet Union will probably become highly mechanized formations with weapons comparable to Soviet and Western 1980s-	subordinate to the group army.	25 25
	vintage designs, and potentially offer a major capability to project military power.	Rather than buying equipment, Beijing is more likely	
(1		for the next few years to seek critical technologies from the West to "leapfrog" the weapons of the 1970s	
	Beijing's recognition of the equipment deficiencies apparent in the group armies does not mean that China is ready to buy outright large quantities of military hardware from the West. China's priority, as reflected in the state budget, is not major defense spending but building China's civilian economy. Equipping the group armies soon to meet the idealized weapon holdings would be prohibitively expensive—for example, China would have to build over 10,000	and 1980s and to revamp its defense industries to build weapons capable of meeting the anticipated Soviet threat of the 21st century (see inset). Using the slogan "win the 21st century," an article in the authoritative <i>Liberation Army Daily</i> in October 1985, authored by members of the General Staff Department, strongly urged that the PLA should build for the future and concentrate its limited resources on	

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of a lot of military hardware focusing their acquisit weapons 5 of the West: that China was no longe TOW antitank missile by	ex and delay the production are. The Chinese, therefore, cion efforts on the "smart" er interested in buying the I-put proposed for the first edevelopment program for a	25X1 25X1 25X
ed and unguided submus massed armor formation	ing the technology for guid- nitions—designed to destroy ns—that can be delivered by nultiple-rocket launchers.	25X1 25X1 25X1

China's Window of Security: Buying Time To Modernize

Beijing believes the Soviet Union is concentrating on rebuilding its economy and defending the gains it made in the 1970s before resuming the offensive early in the next century. At that time, Moscow will increase the military pressure on China to bend Beijing's policy to Moscow's will. This Chinese judgment is reflected in Beijing's continuing and determined military modernization program designed to meet the Soviet threat in the next century.

but the next 10 to 15 years represent a window of security that allows China to reorganize its military.

We believe that Beijing's strategy requires a low level of tensions with Moscow if its reform program, which includes the ambitious military modernization drive. is to succeed. This strategy will probably become more difficult—and more crucial—over the next decade. Indeed, as its military strength grows, Beijing will be compelled to pursue a dialogue with the Soviet Union to avoid unduly increasing friction with a powerful adversary, creating an arms race that China is not able to win. Beijing realizes that no military strategy it might choose would allow it to fully meet the Soviet threat. Accordingly, the Chinese continue to see talks as the key to controlling tensions. To this end, we expect Beijing to continue to exchange visits and to sign economic and technical agreements with Moscow—without fundamentally altering its assessment of the Soviet threat.

Advanced Western air defense systems could provide a quantum improvement in the battlefield survivability of China's group armies.

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In addition to seeking the advanced technologies, Beijing is looking for assistance in learning systems analysis in the management of defense research and development projects. Beijing's track record on producing the appropriate weapon, in the right decade to

"Smart" or "fire and forget" weapons use computer microcircuits and heat sensors or radar to identify enemy targets without being aimed or controlled after firing. For example, the US SADARM (Search and Destroy Armor) is delivered by aircraft or artillery over massed enemy armor and, while descending by parachute, identifies and fires a projectile at the heat signature of vehicle engines.

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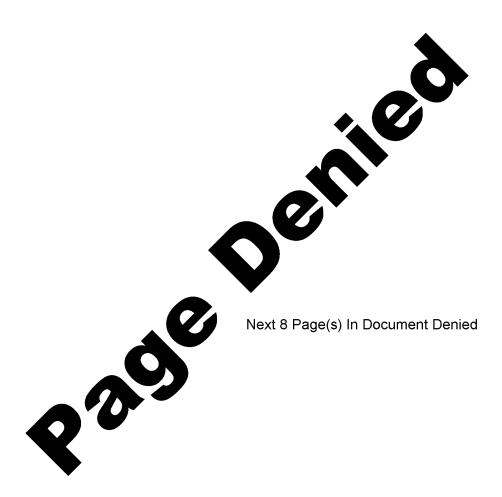
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meet the threat, is abysmal, and indications are strong that China's defense industry leaders are intent on correcting this problem. was more interested in the US management approach to military research and development than in hardware. In fact, Wu invited a US joint systems analysis team to visit Beijing in 1987 to educate Chinese scientists on the US approach. In the shorter term, the Chinese will increasingly seek Western assistance in areas where they can make significant improvements to their group armies without substantial expenditures of funds: • Combat Doctrine and Operational Concepts. We believe Beijing intends to take advantage of US and NATO experience in combined-arms operations and knowledge of Soviet doctrine and tactics. During US Army Chief of Staff Wickham's visit to China in November 1986. to lecture on a variety of topics at the newly formed National Defense University including army aviation doctrine, command and control, and air defense procedures for US ground forces. During meetings in Beijing with US Army combat operations experts in February, Chinese strategists demonstrated a strong focus on US operational art and doctrine for combating massed Soviet armor.				2
US management approach to military research and development than in hardware. In fact, Wu invited a US joint systems analysis team to visit Beijing in 1987 to educate Chinese scientists on the US approach. In the shorter term, the Chinese will increasingly seek Western assistance in areas where they can make significant improvements to their group armies without substantial expenditures of funds: • Combat Doctrine and Operational Concepts. We believe Beijing intends to take advantage of US and NATO experience in combined-arms operations and knowledge of Soviet doctrine and tactics. During US Army Chief of Staff Wickham's visit to China in November 1986, — to lecture on a variety of topics at the newly formed National Defense University including army aviation doctrine, command and control, and air defense procedures for US ground forces. During meetings in Beijing with US Army combat operations experts in February, Chinese strategists demonstrated a strong focus on US operational art and doctrine for combating massed Soviet armor. Western force-management techniques will probably gorow with the increasing complexity of group arm equipment. Especially in the northern military regions, the focus of wartime logistics management is shifting to providing spare parts for laser range-finders, battlefield computers, and large-calibre ammunition. China will probably focus on the tools used to manage logistics—quality-assurance technology, large-scale automated logistics management systems—and probably does not perceive a need to copy Western force sustainment methods or significantly modify the PLA's decentralized force management systems—and probably does not perceive a need to copy Western force sustainment methods or significantly modify the PLA's decentralized force management systems—and probably does not perceive a need to copy Western force sustainment methods or significantly modify the PLA's decentralized force management systems—on the tools used to manage logistics—quality-assurance technology, large-scal	tha	t China's defense industry leaders are intent on	in improved Chinese combined-arms operations, especially as more modern weapons become avail- able and younger, better educated officers move	2
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